

Form PTO-1449 (modified)

Atty. Docket No.
UTSC:550Serial No.
09/381,747

List of Patents and Publications for Applicant's

Applicant
Mar Tormo *et al.*

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:
September 22, 1999Group:
1635U.S. Patent Documents
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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
KC	A42	4,480,041	10/30/84	Myles <i>et al.</i>	436	508	07-09-82
	A43	4,721,612	01/26/88	Janoff <i>et al.</i>	424	1.21	04-10-85
	A44	4,924,624	05/15/90	Suhadolnik <i>et al.</i>	514	44	10-22-87
	A45	4,950,432	08-21-90	Mehta <i>et al.</i>	264	4.6	10-16-87
	A46	5,015,568	05-14-91	Tsujimoto <i>et al.</i>	435	5	07-09-86
	A47	5,030,442	07/09/91	Uster <i>et al.</i>	424	45	04-04-89
	A48	5,049,388	09/17/91	Knight <i>et al.</i>	424	450	07-21-89
	A49	5,087,617	02/11/92	Smith	514	44	02-15-89
	A50	5,098,890	03/24/92	Gewirtz <i>et al.</i>	514	44	10-27-89
	A51	5,100,662	03/31/92	Bolcsak <i>et al.</i>	424	450	10-16-89
	A52	5,112,962	05/12/92	Letsinger <i>et al.</i>	536	25.3	11-09-90
	A53	5,135,917	08-04-92	Burch	514	44	07-12-90
	A54	5,178,875	01-12-93	Lenk <i>et al.</i>	424	450	01-14-91
	A55	5,227,170	07-13-93	Sullivan	424	450	06-20-90
	A56	5,248,671	09/28/93	Smith	514	44	12-09-91
	A57	5,264,618	11/23/93	Felgner <i>et al.</i>	560	224	04-16-91
	A58	5,271,941	12/21/93	Cho-Chung	424	450	05-20-91
	A59	5,279,957	01/18/94	Gross	435	348	04-30-92
	A60	5,320,962	06/14/94	Stiles <i>et al.</i>	435	252.3	07-22-92
	A61	5,324,654	06/28/94	Bredesen	435	376	02-08-92
	A62	5,459,251	10-17-95	Tsujimoto <i>et al.</i>	536	23.5	04-18-94
	A63	5,539,085	07-23-96	Bischoff <i>et al.</i>	530	350	08-20-93
	A64	5,539,094	07-23-96	Reed <i>et al.</i>	536	23.5	11-12-93

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KE	A65	5,560,923	10/01/96	Rahman <i>et al.</i>	424	450	09-28-94
	A66	5,565,337	10-15-96	Diamond <i>et al.</i>	435	70.2	08-23-94
	A67	5,622,852	04-22-97	Korsmeyer	435	325	10-31-94
	A68	5,756,122	05/26/98	Thierry <i>et al.</i>	424	450	07-07-95
	A69	5,817,811	10/06/98	Breipohl <i>et al.</i>	544	264	09-03-96
	A70	5,855,911	1/05/99	Lopez-Berestein and Tari	424	450	8/29/95
	A71	5,874,553	02/23/99	Peyman <i>et al.</i>	536	22.1	03-11-96

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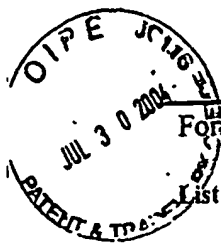
Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
KE	B6	0 252 685	1-13-88	Europe			English
KE	B7	CA 2,171,589	03/12/96	Canada			English
KE	B8	DE 4110085	03/27/91	Germany			Abstract
KE	B9	WO 89/06977	08/10/89	PCT			English
KE	B10	WO 90/09180	08/23/90	PCT			English
KE	B11	WO 90/10488	09/20/90	PCT			Abstract
KE	B12	WO 91/16901	11/14/91	PCT			English
KE	B13	WO 92/21330	12/10/92	PCT			Abstract
KE	B14	WO 93/07883	04/29/93	PCT			English
KE	B15	WO 93/11245	06/10/93	PCT			English
KE	B16	WO 93/24653	12-09-93	PCT			English
KE	B17	WO 94/04545	03/03/94	PCT			English
KE	B18	WO 94/05259	03/17/94	PCT			English

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
KE	B19	WO 95/03788	02-09-95	PCT			English
KE	B20	WO 95/28497	10-26-95	PCT			English
KE	B21	WO 96/27663	09-12-96	PCT			
KE	B22	WO 96/40062	12/19/96	PCT			English

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KE	C6	Agris et al., "Inhibition of vesicular stomatitis virus protein synthesis and infection by sequence-specific oligodeoxyribonucleoside methylphosphonates," <i>Biochemistry</i> , 25:6268-6275, 1986.
KE	C7	Akhtar et al., "Interactions of antisense DNA oligonucleotide analogs with phospholipid membranes (liposomes)," <i>Nucleic Acids Research</i> , 19(20): 5551-5559, 1991.
KE	C8	Akhtar et al., "Release of antisense oligodeoxynucleotide analogues from liposomes: implications for cellular transport and drug delivery," 128th Meeting of British Pharmaceutical Conference 1991, United Kingdom, September 10-13, 1991, <i>J. Pharm. Pharmacol.</i> , 43 (Suppl.): Abstract 24P, 1991.
KE	C9	Aktar et al., "Liposome Delivery of Antisense Methylphosphonate and Phosphorothioate Oligonucleotides: A Study with MLV, FATMLV, and LUV Liposomes," <i>Proceed. Intern. Symp. Control. Rel. Bioact. Mater.</i> , 19:345-346, 1992.
KE	C10	Allsopp et al., "The Proto-Oncogene bcl-2 Can Selectively Rescue Neurotrophic Factor-Dependent Neurons from Apoptosis," <i>Cell</i> , 73:295, 1993.
KE	C11	Arad et al., "Use of reconstituted sendai virus envelopes for fusion-mediated microinjection of double-stranded RNA: Inhibition of protein synthesis in interferon-treated cells," <i>Biochimica et Biophysica Acta</i> , 859:88-94, 1986.

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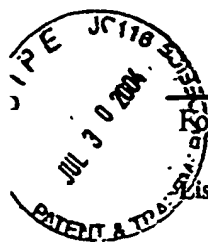
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ll	C12	Bakhshi <i>et al.</i> , "Cloning the Chromosomal Breakpoint of t(14;18) Human Lymphomas: Clustering around J _H on Chromosome 14 and near a Transcriptional Unit on 18," <i>Cell</i> , 41:899, 1985.
ll	C13	Bennett <i>et al.</i> , "Cationic lipids enhance cellular uptake and activity of phosphorothioate antisense oligonucleotides," <i>Molecular Pharmacology</i> , 41(6):1023-1033, 1992.
ll	C14	Boise, <i>et al.</i> , "bcl-x, a bcl-2-Related Gene That Functions as a Dominant Regulator of Apoptotic Cell Death", <i>Cell</i> , 74:597-608, 1993.
ll	C15	Boiziau <i>et al.</i> , "Modified oligonucleotides in rabbit reticulocytes: uptake, stability and antisense properties," <i>Biochimie</i> , 73:1403-1408, 1991.
ll	C16	Borzillo <i>et al.</i> , "Bcl-2 Confers Growth and Survival Advantage to Interleukin 7-dependent Early Pre-B Cells Which Become Factor Independent by a Multistep Process in Culture," <i>Oncogene</i> , 7:869, 1992.
ll	C17	Bradbury <i>et al.</i> , "Down-Regulation of bcl-2 in AML Blasts by All-Trans Retinoic Acid and Its Relationship of CD34 Antigen Expression," <i>British Journal of Haematology</i> , 94:671-675, 1996.
ll	C18	Budker <i>et al.</i> , "Cell membranes as barriers for antisense constructions," <i>Antisense Research and Development</i> , 2:177-184, 1992.
ll	C19	Campos <i>et al.</i> , "Effects of BCL-2 Antisense Oligodeoxynucleotides on In Vitro Proliferation and Survival of Normal Marrow Progenitors and Leukemic Cells," <i>Blood</i> , 84:595, 1994.
ll	C20	Capaccioli <i>et al.</i> , "Cationic lipids improve antisense oligonucleotide uptake and prevent degradation in cultured cells and in human serum," <i>Biochemical and Biophysical Research Communications</i> , 197(2):818-825, 1993.
ll	C21	Capaccioli <i>et al.</i> , "A bcl-2/IgH Antisense Transcript Deregulates bcl-2 Gene Expression in Human Follicular Lymphoma t(14;18) Cell Lines," <i>Oncogene</i> , 13:105-115, 1996.
ll	C22	Cazals-Hatem <i>et al.</i> , "Molecular Cloning and DNA Sequence Analysis of cDNA Encoding Chicken Homologue of the Bcl-2 Oncoprotein," <i>Biochim. Biophys. Acta</i> , 1132:109, 1992.
ll	C23	Chao, <i>et al.</i> , "Bcl-x _L and Bcl-2 Repress a Common Pathway of Cell Death," <i>J. Exp. Med.</i> , 182:821-828, 1995.

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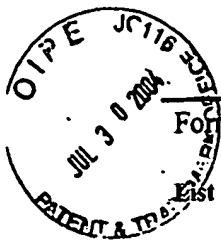
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KE	C24	Chen <i>et al.</i> , "Suppression of <i>Bcl-2</i> Messenger RNA Production May Mediate Apoptosis after Ionizing Radiation, Tumor Necrosis Factor α , and Ceramide," <i>Cancer Res.</i> , 55:991-994, 1995.
KE	C25	Cheng <i>et al.</i> , "Bax-independent inhibition of apoptosis by <i>Bcl-x_L</i> ," <i>Nature</i> , 279:554-556, 1996.
KE	C26	Chen-Levy and Cleary, "Membrane Topology of the <i>Bcl-2</i> Protooncogenic Protein Demonstrated <i>in Vitro</i> ," <i>J. Biol. Chem.</i> 265:4929, 1990.
KE	C27	Chen-Levy <i>et al.</i> , "The <i>bcl-2</i> Candidate Proto-Oncogene Product Is a 24-Kilodalton Integral-Membrane Protein Highly Expressed in Lymphoid Cell Lines and Lymphomas Carrying the t(14;18) Translocation," <i>Mol. Cell. Biol.</i> , 9:701, 1989.
KE	C28	Chittenden <i>et al.</i> , "Induction of apoptosis by the <i>Bcl-2</i> homologue Bak," <i>Nature</i> , 374:733, 1995.
KE	C29	Choi <i>et al.</i> , "The role of <i>bcl-X_L</i> in CD40-mediated rescue from anti- μ -induced apoptosis in WEHI-231 B lymphoma cells," <i>Eur. J. Immunol.</i> , 25:1352-1357, 1995.
KE	C30	Citro <i>et al.</i> , "Chemical modification of ligands for cell receptors to introduce foreign compounds into the cells," <i>Colon & Rectum</i> , 37(2):S127-S132, 1994.
KE	C31	Clarenc <i>et al.</i> , "Delivery of Antisense Oligonucleotides by poly(L-Lysine) Conjugation and Liposome Encapsulation," <i>Anti-Cancer Drug Design</i> , 8:81-94, 1993.
KE	C32	Clarke <i>et al.</i> , "A recombinant <i>bcl-x_S</i> adenovirus selectively induces apoptosis in cancer cells but not in normal bone marrow cells," <i>Proc. Natl. Acad. Sci. USA</i> , 92:11024-11028, 1995.
KE	C33	Cleary <i>et al.</i> , "Cloning and Structural Analysis of cDNAs for <i>bcl-2</i> and a Hybrid <i>bcl-2</i> /Immunoglobulin Transcript Resulting from the t(14;18) Translation," <i>Cell</i> , 47:19, 1986.
KE	C34	Cotter <i>et al.</i> , "Antisense oligonucleotides suppress B-cell lymphoma growth in a SCID-hu mouse model," <i>Oncogene</i> , 9:304-3055, 1994.
KE	C35	Cuende <i>et al.</i> , "Programmed cell death by <i>bcl-2</i> -dependent and independent mechanisms in B lymphoma cells," <i>EMBO J.</i> , 12:1555-1560, 1993.
KE	C36	Datta <i>et al.</i> , "Overexpression of <i>Bcl-x_L</i> by Cytotoxic Drug Exposure Confers Resistance to Ionizing Radiation-induced Internucleosomal DNA Fragmentation," <i>Cell Growth & Differentiation</i> , 6:363-370, 1995.
KE	C37	Dole <i>et al.</i> , " <i>Bcl-x_L</i> Is Expressed in Neuroblastoma Cells and Modulates Chemotherapy-Induced Apoptosis," <i>Cancer Res.</i> , 55:2576-2582, 1995.

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✓	C38	Duke <i>et al.</i> , "Morphological, biochemical and flow cytometric assays of apoptosis," <i>In: Coligan et al (eds) Current protocols in immunology</i> , vol 1., New York: John Wiley & sons, p 3.17.1, 1991.
✓	C39	Eguchi <i>et al.</i> , "Isolation and Characterization of the Chicken <i>bcl-2</i> Gene: Expression in a Variety of Tissues Including Lymphoid and Neuronal Organs in Adult and Embryo," <i>Nucl. Acids. Res.</i> , 20:4187, 1992.
✓	C40	Frankowski <i>et al.</i> , "Function and expression of the <i>Bcl-x</i> gene in the developing and adult nervous system," <i>NeuroReport</i> , 6:1917-1921, 1995.
✓	C41	Garcia <i>et al.</i> , "Prevention of Programmed Cell Death of Sympathetic Neurons by the <i>bcl-2</i> Prot-Oncogene," <i>Science</i> , 258:302, 1992.
✓	C42	Gerwitz <i>et al.</i> , "Facilitating oligonucleotide delivery: helping antisense delivery on its promise," <i>Proc. Natl. Acad. Sci U.S.A.</i> , 93: 3161-3163, 1996.
✓	C43	Gomez-Manzano <i>et al.</i> , "Bax, Bcl-2 and p53 Interactions Modulate p53-Induced Apoptosis in Glioma Cells," <i>Proceedings of the American Association for Cancer Research</i> , 37:204, Abstract 1397, March 1996.
✓	C44	González-García <i>et al.</i> , " <i>bcl-x</i> is expressed in embryonic and postnatal neural tissues and functions to prevent neuronal cell death," <i>Proc. Natl. Acad. Sci. USA.</i> , 92:4304-4308, 1995.
✓	C45	González-García <i>et al.</i> , " <i>bcl-x_L</i> is the major <i>bcl-x</i> mRNA form expressed during murine development and its product localizes to mitochondria," <i>Development</i> , 120:3033-3042, 1994.
✓	C46	Gottschalk <i>et al.</i> , "Identification of immunosuppressant-induced apoptosis in a murine B-cell line and its prevention by <i>bcl-x</i> but not <i>bcl-2</i> ," <i>Proc. Natl. Acad. Sci. USA.</i> , 91:7350-7354, 1994.
✓	C47	Gottschalk <i>et al.</i> , "The ability of <i>Bcl-x_L</i> and <i>Bcl-2</i> to prevent apoptosis can be differentially regulated," <i>Death and Differentiation</i> , 3:113-118, 1996.
✓	C48	Graninger <i>et al.</i> , "Expression of <i>bcl-2</i> and <i>bcl-2</i> -Ig fusion transcripts in normal and neoplastic cells," <i>J. Clin. Invest.</i> , 80:1512, 1987.
✓	C49	Grever and Chabner, "Cancer Drug Discovery and Development," <i>Cancer Principles & Practice of Oncology</i> , 5 th Edition, Lippicott-Raven Publishers, 19:385-394, 1997.
✓	C50	Grillot <i>et al.</i> , " <i>bcl-x</i> Exhibits Regulated Expression During B Cell Development and Activation and Modulates Lymphocyte Survival in Transgenic Mice," <i>J. Exp. Med.</i> , 183:381-391, 1996.

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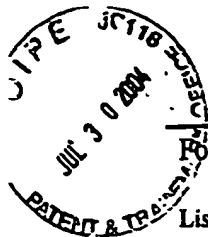
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KE	C56	Kato <i>et al.</i> , "Expression of hepatitis B virus surface antigen in adult rat liver," <i>J. Biol. Chem.</i> , 266:3361-3364, 1991.
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KE	C58	Kiefer <i>et al.</i> , "Modulation of apoptosis by the widely distributed Bcl-2 homologue Bak," <i>Nature</i> , 374: 736, 1995.
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KE	C60	Kozopas <i>et al.</i> , " <i>MCL-1</i> , a gene expressed in programmed myeloid cell differentiation, has sequence similarity to <i>BCL-2</i> ," <i>Proc. Nat'l Acad. Sci. USA</i> , 90:3516, 1993.
KE	C61	Krajewski <i>et al.</i> , "Immunohistochemical Analysis of <i>In Vivo</i> Patterns of Bcl-x Expression," <i>Cancer Res.</i> , 54:5501-5507, 1994.
KE	C62	Kramer <i>et al.</i> , "Self-specific T lymphocyte lines as vehicles for gene therapy: myelin specific T cells carrying exogenous nerve growth factor gene (abstract)," <i>J. Cell. Biochem., Suppl. o</i> (17 Part E):215, 1993.
KE	C63	Krieg <i>et al.</i> , "Modification of antisense phosphodiester oligodeoxynucleotides by a 5' cholesteryl moiety increases cellular association and improves efficacy," <i>Proc. Natl. Acad. Sci., USA</i> , 90:1048-1052, 1993.

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KE	C65	Lin <i>et al.</i> , "Characterization of A1, a novel hemopoietic-specific early-response gene with sequence similarity to BCL-2," <i>J. Immunol.</i> , 151:1979, 1993.
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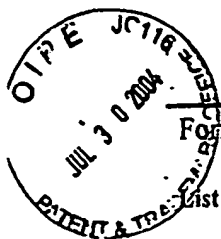
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List of Patents and Publications for Applicant's

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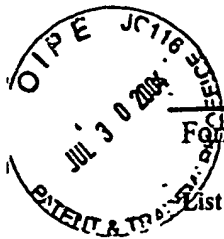
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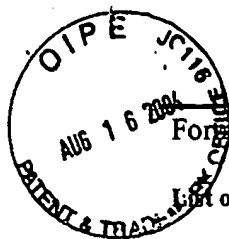
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KC	A73	5,837,838	11/17/98	Reed and Xu	536	23.1	3/14/97
KC	A74	5,981,501	11/09/99	Wheeler <i>et al.</i>	435	44	6/07/95
KC	A75	5,989,912	11/23/99	Arrow <i>et al.</i>	435	375	12/15/98
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KC	B25	WO 98/56905	12/17/98	PCT			English

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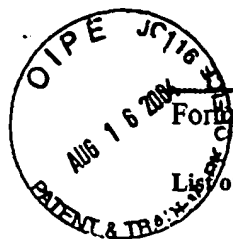
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List of Patents and Publications for Applicant's

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INFORMATION DISCLOSURE STATEMENT

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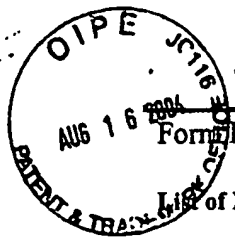
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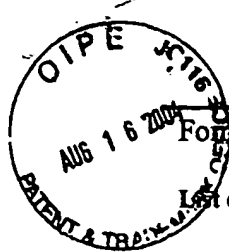
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